

Recombinant Human PSMC2 293 Cell Lysate

Cat. No. PSMC2-2764HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for proteasome (prosome, macropain) 26S subunit, ATPase, 2 (PSMC2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [PSMC2 proteasome \(prosome, macropain\) 26S subunit, ATPase, 2 \[Homo sapiens \]](#)

Official Symbol PSMC2

Synonyms

PSMC2; proteasome (prosome, macropain) 26S subunit, ATPase, 2; 26S protease regulatory subunit 7; mammalian suppressor of sgv 1 of yeast; MSS1; Nbla10058; protease 26S subunit 7; proteasome 26S subunit; ATPase; 2; putative protein product of Nbla10058; S7; proteasome 26S subunit ATPase 2; proteasome 26S subunit, ATPase, 2; 26S proteasome AAA-ATPase subunit RPT1; mammalian suppressor of sgv-1 of yeast; MGC3004;

Gene ID [5701](#)

mRNA Refseq [NM_001204453](#)

Protein Refseq [NP_001191382](#)

MIM [154365](#)

UniProt ID [P35998](#)

Chromosome Location 7q22.1-q22.3

Pathway APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem;

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APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem;
APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted
proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C
and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific
biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive
Immune System, organism-specific biosystem;

Function

ATP binding; ATPase activity; hydrolase activity; nucleotide binding; protein binding;

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